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Hide?	Set Name	Query	Hit Count
	DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI; PLUR=YES; OP=ADJ		
☐	L7	L6 and amidinohydrolase	28
☐	L6	L5 or l4	67
☐	L5	alkaligenes and creatine	5
☐	L4	alcaligenes and creatine	64
	DB=USPT; PLUR=YES; OP=ADJ		
☐	L3	5932466.pn.	1
☐	L2	6080553	5
☐	L1	re38687	1

END OF SEARCH HISTORY

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Search Results - Record(s) 1 through 10 of 28 returned.

☐ 1. Document ID: US 20030119084 A1

L7: Entry 1 of 28 File: PGPB Jun 26, 2003

PGPUB-DOCUMENT-NUMBER: 20030119084
PGPUB-FILING-TYPE: new
DOCUMENT-IDENTIFIER: US 20030119084 A1

TITLE: Variants of Erwinia-type creatinase

PUBLICATION-DATE: June 26, 2003

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY	RULE-47
Shao, Zhixin	Penzberg		DE	
Schmuck, Rainer	Benediktbeuern		DE	
Kratzsch, Peter	Antdorf		DE	
Kenklies, Janet	Penzberg		DE	
Weisser, Harald	Bernried		DE	

US-CL-CURRENT: 435/18; 435/227, 435/252.3, 435/320.1

Full | Title | Citation | Front | Review | Classification | Date | Reference | Sequences | Attachments | Claims | KWIC | Draw D

☐ 2. Document ID: US RE38687 E

L7: Entry 2 of 28 File: USPT Jan 11, 2005

US-PAT-NO: RE38687
DOCUMENT-IDENTIFIER: US RE38687 E

TITLE: Creatine amidinohydrolase, production thereof and use thereof

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

☐ 3. Document ID: US 6821766 B1

L7: Entry 3 of 28 File: USPT Nov 23, 2004

US-PAT-NO: 6821766
DOCUMENT-IDENTIFIER: US 6821766 B1

TITLE: Thermostable creatine amidinohydrolase and process for producing the same

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

☐ 4. Document ID: US 6699700 B1

L7: Entry 4 of 28 File: USPT Mar 2, 2004

US-PAT-NO: 6699700
DOCUMENT-IDENTIFIER: US 6699700 B1
**** See image for Certificate of Correction ****

TITLE: Creatine amidinohydrolase and process for producing the same

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

☐ 5. Document ID: US 6080553 A

L7: Entry 5 of 28 File: USPT Jun 27, 2000

US-PAT-NO: 6080553
DOCUMENT-IDENTIFIER: US 6080553 A

TITLE: Creatine amidinohydrolase, production thereof and use thereof

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

☐ 6. Document ID: US 5932466 A

L7: Entry 6 of 28 File: USPT Aug 3, 1999

US-PAT-NO: 5932466
DOCUMENT-IDENTIFIER: US 5932466 A
**** See image for Certificate of Correction ****

TITLE: Creatine amidinohydrolase gene, a novel recombinant DNA, and a process for producing creatine amidinohydrolase

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

☐ 7. Document ID: US 5451520 A

L7: Entry 7 of 28 File: USPT Sep 19, 1995

US-PAT-NO: 5451520
DOCUMENT-IDENTIFIER: US 5451520 A

TITLE: Creatine amidinohydrolase from alkaligenes sp. ks-85 ferm bp-4487

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

☐ 8. Document ID: US 5047329 A

L7: Entry 8 of 28 File: USPT Sep 10, 1991

US-PAT-NO: 5047329
DOCUMENT-IDENTIFIER: US 5047329 A

TITLE: Method for the measurement of creatine or creatinine and reagents for these measurements

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

☐ 9. Document ID: US 4215197 A

L7: Entry 9 of 28 File: USPT Jul 29, 1980

US-PAT-NO: 4215197
DOCUMENT-IDENTIFIER: US 4215197 A

TITLE: Test means and method for creatinine determination

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

☐ 10. Document ID: US 4039384 A

L7: Entry 10 of 28 File: USPT Aug 2, 1977

US-PAT-NO: 4039384
DOCUMENT-IDENTIFIER: US 4039384 A

TITLE: Creatinine amidohydrolase and creatine amidinohydrolase and process for producing them

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Terms	Documents
L6 and amidinohydrolase	28

Display Format: - Change Format

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Search Results - Record(s) 11 through 20 of 28 returned.

☐ 11. Document ID: US 3912588 A

L7: Entry 11 of 28 File: USPT Oct 14, 1975

US-PAT-NO: 3912588
DOCUMENT-IDENTIFIER: US 3912588 A

TITLE: Creatine amidohydrolase in the conversion of creatinine to creatine

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

☐ 12. Document ID: US 3907644 A

L7: Entry 12 of 28 File: USPT Sep 23, 1975

US-PAT-NO: 3907644
DOCUMENT-IDENTIFIER: US 3907644 A

TITLE: Creatinine amidohydrolase composition and process for the determination of creatinine

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

☐ 13. Document ID: JP 2000201675 A

L7: Entry 13 of 28 File: JPAB Jul 25, 2000

PUB-NO: JP02000201675A
DOCUMENT-IDENTIFIER: JP 2000201675 A
TITLE: HEAT-RESISTANT CREATINE AMIDINOHYDROLASE AND ITS PRODUCTION

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

☐ 14. Document ID: JP 10174585 A

L7: Entry 14 of 28 File: JPAB Jun 30, 1998

PUB-NO: JP410174585A
DOCUMENT-IDENTIFIER: JP 10174585 A
TITLE: STABLE CREATINE AMIDINOHYDROLASE

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

☐ 15. Document ID: JP 08308579 A

L7: Entry 15 of 28 File: JPAB Nov 26, 1996

PUB-NO: JP408308579A
DOCUMENT-IDENTIFIER: JP 08308579 A
TITLE: GENE ENCODING CREATINE AMIDINOHYDROLASE

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

☐ 16. Document ID: JP 08089255 A

L7: Entry 16 of 28 File: JPAB Apr 9, 1996

PUB-NO: JP408089255A
DOCUMENT-IDENTIFIER: JP 08089255 A
TITLE: NOVEL CREATINE AMIDINOHYDROLASE GENE, NOVEL RECOMBINANT DNA AND PRODUCTION OF CREATINE AMIDINOHYDROLASE

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

☐ 17. Document ID: JP 07265074 A

L7: Entry 17 of 28 File: JPAB Oct 17, 1995

PUB-NO: JP407265074A
DOCUMENT-IDENTIFIER: JP 07265074 A
TITLE: NEW CREATINE AMIDINOHYDROLASE AND ITS USE

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

☐ 18. Document ID: JP 62091182 A

L7: Entry 18 of 28 File: JPAB Apr 25, 1987

PUB-NO: JP362091182A
DOCUMENT-IDENTIFIER: JP 62091182 A
TITLE: PRODUCTION OF CREATINE AMIDINOHYDROLASE

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

☐ 19. Document ID: JP 55034029 A

L7: Entry 19 of 28 File: JPAB Mar 10, 1980

PUB-NO: JP355034029A
DOCUMENT-IDENTIFIER: JP 55034029 A

TITLE: PREPARATION OF CREATININE AMIDOHYDROLASE AND/OR CREATINE AMIDINOHYDOLASE

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

☐ 20. Document ID: US 6821766 B1, WO 200040708 A1, JP 2000201675 A, EP 1142994 A1

L7: Entry 20 of 28 File: DWPI Nov 23, 2004

DERWENT-ACC-NO: 2000-475827
DERWENT-WEEK: 200478

TITLE: Novel thermostable Alcaligenes-derived creatine amidinohydrolase, useful for the diagnosis of kidney diseases and related diseases

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

Clear | Generate Collection | Print | Fwd Refs | Bkwd Refs | Generate OACS

Terms	Documents
L6 and amidinohydrolase	28

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Search Results - Record(s) 21 through 28 of 28 returned.

☐ 21. Document ID: JP 07265074 A, JP 3114838 B2

L7: Entry 21 of 28 File: DWPI Oct 17, 1995

DERWENT-ACC-NO: 1995-388685
DERWENT-WEEK: 200065

TITLE: Creatine amidino:hydrolase - catalyses conversion of creatine to sarcosine and urea

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

☐ 22. Document ID: DE 4445084 A1, JP 2788174 B2, JP 07170979 A, US 5451520 A

L7: Entry 22 of 28 File: DWPI Jun 22, 1995

DERWENT-ACC-NO: 1995-225787
DERWENT-WEEK: 199838

TITLE: New creatine amidinohydrolase enzyme from Alcaligenes - useful for determn. of creatine and/or creatinine

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

☐ 23. Document ID: JP 62091182 A, JP 94057148 B2

L7: Entry 23 of 28 File: DWPI Apr 25, 1987

DERWENT-ACC-NO: 1987-153951
DERWENT-WEEK: 198722

TITLE: Prodn. of creatine amidino:hydrolase - by culturing Alcaligenes bacteria and separating obtd. enzyme

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

☐ 24. Document ID: JP 55034029 A, JP 85050437 B

L7: Entry 24 of 28 File: DWPI Mar 10, 1980

DERWENT-ACC-NO: 1980-28511C
DERWENT-WEEK: 198016

TITLE: Creatinine amidohydrolase and/or creatine amidino-hydrolase prodn. - by incubation of Alkaligenes ak-2, prod. being useful for creatinine analysis

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Drawi D

☐ 25. Document ID: NL 7205996 A, DE 2122294 A, FR 2135301 A, US 3806420 A, SU 421200 A, CH 572522 A, DE 2167120 A, DE 2122294 B, DE 2167120 B, JP 47043281 A, JP 81007674 B, NL 175434 B

L7: Entry 25 of 28 File: DWPI

DERWENT-ACC-NO: 1972-74817T
DERWENT-WEEK: 199817

TITLE: Growth of microorganisms - contg creatinine - amidohydrolase and creatinine-amidinohydrolase

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Drawi D

☐ 26. Document ID: NL 7205995 A, CA 993386 A, CH 572067 A, DE 2122298 A, DE 2122298 B, DE 2167034 A, DE 2167034 B, DE 2167035 A, DE 2167035 B, FR 2182705 A, GB 1359403 A, JP 47043283 A, JP 82029150 B, NL 175930 B, SE 7900292 A, SU 532341 A, US 3806416 A, US 3907644 A, US 3912588 A

L7: Entry 26 of 28 File: DWPI

DERWENT-ACC-NO: 1972-74816T
DERWENT-WEEK: 197247

TITLE: Isolation of creatinine amido hydrolase and creatine - amidinohydrolase - from microorganisms, for use in clinical liver fun

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Drawi D

☐ 27. Document ID: US 3806420 A

L7: Entry 27 of 28 File: USOC Apr 23, 1974

US-PAT-NO: 3806420
DOCUMENT-IDENTIFIER: US 3806420 A

TITLE: PROCESS FOR THE PREPARATION OF CREATININE AMIDOHYDROLASE

DATE-ISSUED: April 23, 1974

INVENTOR-NAME: BERGMEYER H; GRAMSALL J ; HOLZ G ; NELBOECK HOCHSTETTER M

US-CL-CURRENT: 435/231, 435/12, 435/228, 435/815, 435/816, 435/829, 435/933

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

☐ 28. Document ID: US 3806416 A

L7: Entry 28 of 28 File: USOC Apr 23, 1974

US-PAT-NO: 3806416
DOCUMENT-IDENTIFIER: US 3806416 A

TITLE: CREATINE AMIDOHYDROLASE AND PROCESS FOR ITS PREPARATION

DATE-ISSUED: April 23, 1974

INVENTOR-NAME: BERGMEYER H; MOLLERING H ; BEAUCAMP K ; NELBOECK HOCHSTETTER M

US-CL-CURRENT: 435/228, 435/12, 435/933

Full | Title | Citation | Front | Review | Classification | Date | Reference | Claims | KWIC | Draw D

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Terms	Documents
L6 and amidinohydrolase	28

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                   fields
 NEWS  13 APR 04   EMBASE - Database reloaded and enhanced
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 NEWS  15 APR 25   Patent searching, including current-awareness alerts (SDIs),
                   based on application date in CA/CAplus and USPATFULL/USPAT2
                   may be affected by a change in filing date for U.S.
                   applications.
 NEWS  16 APR 28   Improved searching of U.S. Patent Classifications for
                   U.S. patent records in CA/CAplus
 NEWS  17 MAY 23   GBFULL enhanced with patent drawing images
 NEWS  18 MAY 23   REGISTRY has been enhanced with source information from
                   CHEMCATS
 NEWS  19 JUN 06   STN Patent Forums to be held in June 2005
 NEWS  20 JUN 06   The Analysis Edition of STN Express with Discover!
                   (Version 8.0 for Windows) now available
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=> s alcaligenes and creatine
L1          54 ALCALIGENES AND CREATINE

=> s alkaligenes and creatine
L2           6 ALKALIGENES AND CREATINE

=> s l1 or l2
L3          58 L1 OR L2

=> dup rem l3
PROCESSING COMPLETED FOR L3
L4           31 DUP REM L3 (27 DUPLICATES REMOVED)

=> s l4 and amidinohydrolase
L5          21 L4 AND AMIDINOHYDROLASE

=> d 1-10

L5   ANSWER 1 OF 21     MEDLINE on STN
AN   86298631     MEDLINE
DN   PubMed ID: 3742654
TI   Purification and characterization of   ***creatine***
       ***amidinohydrolase***   of   ***Alcaligenes***   origin.
AU   Matsuda Y; Wakamatsu N; Inouye Y; Uede S; Hashimoto Y; Asano K; Nakamura S
SO   Chemical & pharmaceutical bulletin, (1986 May) 34 (5) 2155-60.
     Journal code: 0377775. ISSN: 0009-2363.
```

CY Japan
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 198610
ED Entered STN: 19900321
Last Updated on STN: 19900321
Entered Medline: 19861015

L5 ANSWER 2 OF 21 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN
AN 92:609285 SCISEARCH
GA The Genuine Article (R) Number: JT339
TI EFFECTS OF PH, TEMPERATURE AND REACTION-PRODUCTS ON THE PERFORMANCE OF AN IMMOBILIZED CREATININASE-CREATINASE-SARCOSINE OXIDASE ENZYME-SYSTEM FOR CREATININE DETERMINATION
AU SAKSLUND H; HAMMERICH O (Reprint)
CS UNIV COPENHAGEN, HC ORSTED INST, DEPT CHEM, UNIVERSITETSPARKEN 5, DK-2100 COPENHAGEN, DENMARK
CYA DENMARK
SO ANALYTICA CHIMICA ACTA, (16 OCT 1992) Vol. 268, No. 2, pp. 331-345. ISSN: 0003-2670.
DT Article; Journal
FS PHYS
LA ENGLISH
REC Reference Count: 49
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L5 ANSWER 3 OF 21 LIFESCI COPYRIGHT 2005 CSA on STN
AN 97:10782 LIFESCI
TI ***Creatine*** ***amidinohydrolase*** from ***Alkaligenes*** sp. ks-85 ferm bp-4487
CS KIKKOMAN CORPORATION
SO (1995) . US Patent 5451520; US Cl. 435/227 435/252.1 435/829..
DT Patent
FS A; W2
LA English

L5 ANSWER 4 OF 21 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
AN 2000-12466 BIOTECHDS
TI Novel thermostable ***Alcaligenes*** -derived ***creatine*** - ***amidinohydrolase*** , useful for the diagnosis of kidney diseases and related diseases;
creatinase production involving vector plasmid pUCE100-mediated gene transfer for expression Escherichia coli
AU Furukawa K; Koyama Y; Suzuki M
PA Kikkoman
LO Chiba, Japan.
PI WO 2000040708 13 Jul 2000
AI WO 1999-JP7424 28 Dec 1999
PRAI JP 1999-33359 1 Jan 1999
DT Patent
LA Japanese
OS WPI: 2000-475827 [41]

L5 ANSWER 5 OF 21 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
AN 2000-11471 BIOTECHDS
TI Highly thermostable ***creatine*** - ***amidinohydrolase*** with optimum pH in weakly acidic region, useful in assaying serum or urine ***creatine*** for diagnosis of e.g. kidney diseases, scarcely affected by bilirubin;
creatine -amidohydrolase isolation, produced by a transformant Escherichia coli
AU Furukawa K; Ichikawa T
PA Kikkoman
LO Chiba, Japan.
PI WO 2000031245 2 Jun 2000
AI WO 1999-JP6583 25 Nov 1999
PRAI JP 1998-334252 25 Nov 1998
DT Patent
LA Japanese

OS WPI: 2000-411951 [35]

L5 ANSWER 6 OF 21 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
AN 1997-02494 BIOTECHDS
TI A gene coding for ***creatine*** - ***amidinohydrolase*** ; ***Alcaligenes*** faecalis thermostable creatinase expression in Serratia liquefaciens for use in ***creatine*** determination and disease diagnosis
PA Toyobo
LO Japan.
PI JP 08308579 26 Nov 1996
AI JP 1995-117283 16 May 1995
PRAI JP 1995-117283 16 May 1995
DT Patent
LA Japanese
OS WPI: 1997-059698 [06]

L5 ANSWER 7 OF 21 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
AN 1996-06800 BIOTECHDS
TI DNA encoding ***creatine*** - ***amidinohydrolase*** ; ***Alcaligenes*** sp. creatinase gene cloning and expression for use in kidney disease diagnosis, etc.
AU Furukawa K; Ichikawa T; Suzuki M; Koyama Y
PA Kikkoman
LO Chiba, Japan.
PI DE 19536506 4 Apr 1996
AI DE 1995-1036506 29 Sep 1995
PRAI JP 1994-235737 29 Sep 1994
DT Patent
LA German
OS WPI: 1996-180805 [19]

L5 ANSWER 8 OF 21 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
AN 1996-01134 BIOTECHDS
TI ***Creatine*** - ***amidinohydrolase*** ; purification and characterization of creatinase produced by ***Alcaligenes*** faecalis
PA Toyobo
LO Japan.
PI JP 07265074 17 Oct 1995
AI JP 1994-63363 31 Mar 1994
PRAI JP 1994-63363 31 Mar 1994
DT Patent
LA Japanese
OS WPI: 1995-388685 [50]

L5 ANSWER 9 OF 21 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
AN 1995-11084 BIOTECHDS
TI New ***creatine*** - ***amidinohydrolase*** enzyme from ***Alcaligenes*** ; creatinase preparation, purification and characterization from ***Alcaligenes*** sp. for use as a diagnostic
AU Furukawa K; Hashimoto K; Suzuki M
PA Kikkoman
PI DE 4445084 22 Jun 1995
AI DE 1994-4445084 16 Dec 1994
PRAI JP 1993-318675 17 Dec 1993
DT Patent
LA German
OS WPI: 1995-225787 [30]

L5 ANSWER 10 OF 21 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
AN 1987-09207 BIOTECHDS
TI Production of ***creatine*** - ***amidinohydrolase*** ; using ***Alcaligenes*** sp.
PA Kobayashi-Pharm.
PI JP 62091182 25 Apr 1987
AI JP 1985-234163 18 Oct 1985
PRAI JP 1985-234163 18 Oct 1985
DT Patent
LA Japanese

OS WPI: 1987-153951 [22]

=> d 11-21

L5 ANSWER 11 OF 21 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
AN 1987-02879 BIOTECHDS
TI Sarcosine-oxidase involved in creatinine degradation in ***Alcaligenes*** denitrificans subsp. denitrificans J9 and Arthrobacter spp. J5 and J11; enzyme purification and partial characterization
AU Kim J M; Shimizu S; Yamada H
LO Department of Agricultural Chemistry, Faculty of Agriculture, Kyoto University, Kyoto 606, Japan.
SO Agric.Biol.Chem.; (1986) 50, 11, 2811-16
CODEN: ABCHA6
DT Journal
LA English

L5 ANSWER 12 OF 21 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN
AN 2002:29488 BIOSIS
DN PREV200200029488
TI ***Creatine*** ***amidinohydrolase*** from ***alkaligenes*** sp. KS-85 ferm BP-4487.
AU Furukawa, K. [Inventor]; Hashimoto, K. [Inventor]; Suzuki, M. [Inventor]
CS Noda, Japan
ASSIGNEE: KIKKOMAN CORPORATION
PI US 5451520 19950919
SO Official Gazette of the United States Patent and Trademark Office Patents, (Sept. 19, 1995) Vol. 1178, No. 3, pp. 1663. print.
CODEN: OGUPE7. ISSN: 0098-1133.
DT Patent
LA English
ED Entered STN: 26 Dec 2001
Last Updated on STN: 25 Feb 2002

L5 ANSWER 13 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1998:423907 HCAPLUS
DN 129:92258
TI Recombinant preparation of ***creatine*** ***amidinohydrolase*** mutants of ***Alcaligenes*** faecalis with improved thermostability
IN Sokabe, Atsushi; Nishiya, Yoshiaki; Kawamura, Yoshihisa
PA Toyobo Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 10174585	A2	19980630	JP 1996-337027	19961217
	JP 3422197	B2	20030630		
	JP 2001346594	A2	20011218	JP 2001-121708	19961217
PRAI	JP 1996-337027	A3	19961217		

L5 ANSWER 14 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1997:591389 HCAPLUS
DN 127:187507
TI Novel mutant ***creatine*** ***amidinohydrolase*** from ***Alcaligenes*** and its production and analytical use
IN Sogabe, Atsushi; Hattori, Takashi; Nishiya, Yoshiaka; Kawamura, Yoshihisa
PA Toyo Boseki Kabushiki Kaisha, Japan
SO Eur. Pat. Appl., 21 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 790303	A1	19970820	EP 1997-102270	19970213

R: DE, FR, GB, IT

JP 09215494	A2	19970819	JP 1996-25435	19960213
JP 3075390	B2	20000814		
US 6080553	A	20000627	US 1997-799897	19970213
EP 1132467	A2	20010912	EP 2001-113052	19970213
EP 1132467	A3	20011010		

R: DE, FR, GB, IT

US 38687	E	20050111	US 2001-940941	20010828
PRAI JP 1996-25435	A	19960213		
EP 1997-102270	A3	19970213		
US 1997-799897	A5	19970213		

L5 ANSWER 15 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1985:593663 HCAPLUS
DN 103:193663
TI Higher homolog and N-ethyl analog of ***creatine*** as synthetic phosphagen precursors in brain, heart, and muscle, repressors of liver amidinotransferase, and substrates for ***creatine*** catabolic enzymes
AU Roberts, Jeffrey J.; Walker, James B.
CS Dep. Biochem., Rice Univ., Houston, TX, 77251, USA
SO Journal of Biological Chemistry (1985), 260(25), 13502-8
CODEN: JBCHA3; ISSN: 0021-9258
DT Journal
LA English

L5 ANSWER 16 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1980:512317 HCAPLUS
DN 93:112317
TI Creatinineamide hydrolase and creatineamidino hydrolase
PA Toyobo Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 55034029	A2	19800310	JP 1978-105039	19780828
JP 60050437	B4	19851108		
PRAI JP 1978-105039	A	19780828		

L5 ANSWER 17 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1979:589698 HCAPLUS
DN 91:189698
TI Recovery of soluble creatinoe ***amidinohydrolase***
IN Holz, Guenter; Gramsall, Johanna; Nelboeck-Hochstetter, Michael; Bergmeyer, Hans Ulrich
PA Boehringer Mannheim G.m.b.H., Fed. Rep. Ger.
SO Ger., 3 pp. Division to Ger. 2,122,294.
CODEN: GWXXAW
DT Patent
LA German
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI DE 2167120	B1	19790802	DE 1971-2167120	19710505
DE 2167120	C2	19800403		
PRAI DE 1971-2167120	A	19710505		

L5 ANSWER 18 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1977:599190 HCAPLUS
DN 87:199190
TI Recovery of creatineamidinohydrolase
IN Moellering, Hans; Beaucamp, Klaus; Nelboeck-Hochstetter, Michael; Bergmeyer, Hans Ulrich
PA Boehringer Mannheim G.m.b.H., Fed. Rep. Ger.
SO Ger. Offen., 12 pp. Division of Ger. Offen. 2,122,298.
CODEN: GWXXBX
DT Patent
LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2167035	A1	19771006	DE 1971-2167035	19710505
	DE 2167035	C3	19790510		
PRAI	DE 1971-2167035	A	19710505		

L5 ANSWER 19 OF 21 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1973:68764 HCAPLUS
DN 78:68764
TI Purification of creatinine amidohydrolase
IN Moellering, Hans; Beaucamp, Klaus; Nelboeck-Hochstetter, Michael; Bergmeyer, Hans Ulrich
PA Boehringer Mannheim G.m.b.H.
SO Ger. Offen., 16 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 3

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 2122298	A	19721123	DE 1971-2122298	19710505
	DE 2122298	C3	19790222		
	US 3806416	A	19740423	US 1972-249589	19720502
	NL 7205995	A	19721107	NL 1972-5995	19720504
	NL 175930	B	19840816		
	NL 175930	C	19850116		
	IT 954975	A	19730915	IT 1972-23890	19720504
	AT 311288	B	19731112	AT 1972-3879	19720504
	GB 1359403	A	19740710	GB 1972-20767	19720504
	IL 39362	A1	19741129	IL 1972-39362	19720504
	HU 166364	P	19750328	HU 1972-BO1369	19720504
	CH 572067	A	19760130	CH 1972-6622	19720504
	CA 993386	A1	19760720	CA 1972-141498	19720504
	DK 134026	B	19760830	DK 1972-2213	19720504
	FI 51358	B	19760831	FI 1972-1267	19720504
	SU 532341	D	19761015	SU 1972-1781172	19720504
	FR 2182705	B1	19770114	FR 1972-15957	19720504
	FR 2182705	A1	19731214		
	JP 57029150	B4	19820621	JP 1972-44534	19720504
	US 3912588	A	19751014	US 1973-411526	19731031
	US 3907644	A	19750923	US 1973-415463	19731113
	SE 7900292	A	19790112	SE 1979-292	19790112
PRAI	DE 1971-2122255	A	19710505		
	DE 1971-2122294	A	19710505		
	DE 1971-2122298	A	19710505		
	US 1972-247184	A2	19720424		
	US 1972-249589	A3	19720502		
	SE 1972-587	A	19720504		
	US 1973-411526	A2	19731031		

L5 ANSWER 20 OF 21 WPIDS COPYRIGHT 2005 THE THOMSON CORP on STN
AN 1972-74817T [47] WPIDS
TI Growth of microorganisms - contg creatinine - amidohydrolase and creatinine- ***amidinohydrolase***
DC B04 D16
PA (BOEF) BOEHRINGER MANNHEIM GMBH
CYC 7

PI	NL 7205996	A		(197247)*
	DE 2122294	A		(197249)
	FR 2135301	A		(197309)
	US 3806420	A	19740423	(197418)
	SU 421200	A	19740814	(197504)
	CH 572522	A	19760213	(197615)
	DE 2167120	A	19781116	(197847)
	DE 2122294	B	19781130	(197849)
	DE 2167120	B	19790802	(197932)
	JP 47043281	A	19721218	(198112)
	JP 56007674	B	19810219	(198112)
	NL 175434	B	19840601	(198425)

ADT DE 2167120 A Div ex DE 1971-2122294 19710505, DE 1971-2167120 19710505

PRAI DE 1971-2167120 19710505; DE 1971-2122294 19710505;
DE 1971-2122298 19710505
IC C12D013-10; C12N009-86; C12R001-05

L5 ANSWER 21 OF 21 WPIDS COPYRIGHT 2005 THE THOMSON CORP on STN
AN 1972-74816T [47] WPIDS
TI Isolation of creatinine amido hydrolase and ***creatine*** -
amidinohydrolase - from microorganisms, for use in clinical liver fun.
DC B04 D16 S03 S05
PA (BOEF) BOEHRINGER MANNHEIM GMBH
CYC 10
PI NL 7205995 A (197247)*
DE 2122298 A (197249)
FR 2182705 A 19740118 (197406)
US 3806416 A 19740423 (197418)
GB 1359403 A 19740710 (197428)
US 3907644 A 19750923 (197540)
US 3912588 A 19751014 (197543)
CH 572067 A 19760130 (197612)
CA 993386 A 19760720 (197632)
DE 2167034 A 19770922 (197739)
DE 2167035 A 19771006 (197741)
SU 532341 A 19770725 (197808)
DE 2122298 B 19780629 (197827)
DE 2167035 B 19780921 (197839)
SE 7900292 A 19790618 (197927)
DE 2167034 B 19800320 (198013)
JP 47043283 A 19721218 (198228)
JP 57029150 B 19820621 (198228)
NL 175930 B 19840816 (198435)
PRAI DE 1971-2122255 19710505; DE 1971-2122298 19710505;
DE 1971-2167034 19710505
IC C07C007-02; C07G007-28; C12D013-00; C12K001-00; C12N009-78; C12N009-80; G01N031-14; G01N033-00

=> d 2,11 ab

L5 ANSWER 2 OF 21 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN
AB The effects of pH, temperature (t) and reaction products on the performance of enzyme reactors containing immobilized creatininase (CA), creatinase (CI) and sarcosine oxidase (SO) for the determination of creatinine were studied by flow-injection analysis with amperometric detection of the resulting hydrogen peroxide. The optimum performance of the coupled enzyme system was found at pH 7.7 and 25-degrees-C. Some of the CI and SO activity was lost irreversibly at t greater-than-or-equal-to 30-degrees-C. In contrast, the activity of CA increased reversibly with t up to at least 40-degrees-C. The effects of the reaction products on the enzyme activities were examined. Glycine caused the CA activity to increase and the SO activity to decrease, whereas the CI activity was unaffected by this compound. Sarcosine caused a decrease in the CI activity. The activities of all three enzymes were insensitive towards the presence of formaldehyde and urea and so was the activity of SO in the presence of ***creatine*** and hydrogen peroxide. The fraction, alpha, of the injected creatinine (or ***creatine***) equilibrated by the CA reactor is introduced as a quantitative measure of the CA activity, and was between 10 and 72% depending on the enzyme loading. The unused immobilized enzymes were found to maintain their activity for at least 6 months. When in heavy daily use, CA and SO lost ca. 25% of the activity over a period of 20-30 days, whereas the activity of CI was found to be essentially unchanged.

L5 ANSWER 11 OF 21 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
AB 3 Microorganisms that degrade creatinine and contain sarcosine-oxidase (EC-1.5.3.1) were isolated from soil and identified to be ***Alcaligenes*** denitrificans subsp. denitrificans J9 and Arthrobacter spp. J5 and J11. Neither creatinine nor ***creatine*** was detected in the culture broth of the 3 isolates and neither creatinine-deiminase nor N-carbamoylsarcosine-amidohydrolase was detected

in the culture broth of cells grown in the presence of creatinine. The activities of creatinine-amidohydrolase and a sarcosine-oxidase in these isolates were high. Creatinine- ***amidinohydrolase*** was also formed by creatinine. The isolate degraded creatinine only via ***creatine*** by inducibly formed creatinine-amidohydrolase, ***creatine*** -amidohydrolase and sarcosine-oxidase when cultivated with creatinine as main N-source. Sarcosine-oxidase was purified from isolate J9 by Sephacryl S-200 column chromatography and was partially characterized. (35 ref)

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=> s sarcosine oxidase and arthrobacter
L6          138 SARCOSINE OXIDASE AND ARTHROBACTER

=> s sarcosine oxidase (5a) arthrobacter
L7           89 SARCOSINE OXIDASE (5A) ARTHROBACTER

=> s l7 (5a)(purifi? or isolat?)
L8           13 L7 (5A)(PURIFI? OR ISOLAT?)

=> dup rem l8
PROCESSING COMPLETED FOR L8
L9            4 DUP REM L8 (9 DUPLICATES REMOVED)

=> d 1-4

L9   ANSWER 1 OF 4  HCAPLUS  COPYRIGHT 2005 ACS on STN
AN   2004:366791  HCAPLUS
DN   141:242107
TI   Isolation of sarcosine oxidase producing bacteria and study on conditions
     for enzyme production
AU   Zhao, Gengfeng; Ma, Xiaohang; Jia, Xiaoming; Wang, Yuanyuan
CS   College of Life Sciences, Zhejiang University, Hangzhou, 310029, Peop.
     Rep. China
SO   Weishengwu Xuebao (2003), 43(2), 235-240
     CODEN: WSHPA8; ISSN: 0001-6209
PB   Kexue Chubanshe
DT   Journal
LA   Chinese

L9   ANSWER 2 OF 4  SCISEARCH  COPYRIGHT (c) 2005 The Thomson Corporation  on
     STN                                                    DUPLICATE 1
AN   96:537553  SCISEARCH
GA   The Genuine Article (R) Number: UX079
TI   CLONING OF GENES ENCODING HETEROTETRAMERIC SARCOSINE OXIDASE FROM
     ARTHROBACTER SP
AU   MESKYS R (Reprint); RUDOMANSKIS R; LEIPUVIENE R
CS   INST BIOCHEM, LAB BIOANAL, SECTOR BIOSYNTHESIS, MOKSLININKU 12, VILNIUS
     2600, LITHUANIA (Reprint)
CYA  LITHUANIA
SO   BIOTECHNOLOGY LETTERS, (JUL 1996) Vol. 18, No. 7, pp. 781-786.
     ISSN: 0141-5492.
DT   Article; Journal
FS   LIFE; AGRI
LA   ENGLISH
REC  Reference Count: 15
     *ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS*

L9   ANSWER 3 OF 4  SCISEARCH  COPYRIGHT (c) 2005 The Thomson Corporation  on
     STN                                                    DUPLICATE 2
AN   88:296143  SCISEARCH
GA   The Genuine Article (R) Number: N4421
TI     ***SARCOSINE***     ***OXIDASE***   FROM   ***ARTHROBACTER***
     -UREAFACIENS -   ***PURIFICATION***   AND SOME PROPERTIES
AU   OGUSHI S (Reprint); NAGAO K; EMI S; ANDO M; TSURU D
CS   NAGASAKI UNIV, FAC PHARMACEUT SCI, 1-14 BUNKYO MACHI, NAGASAKI 852, JAPAN
     (Reprint); TOYO BOSEKI CO LTD, DIV RES, TSURUGA 914, JAPAN
CYA  JAPAN
SO   CHEMICAL & PHARMACEUTICAL BULLETIN, (1988) Vol. 36, No. 4, pp. 1445-1450.
DT   Article; Journal
FS   LIFE
```

LA ENGLISH
REC Reference Count: 17

L9 ANSWER 4 OF 4 WPIDS COPYRIGHT 2005 THE THOMSON CORP on STN
AN 1979-28610B [15] WPIDS
TI Sarcosine oxidase prepn. - by incubating microorganism of genus Arthrobacter in nutritional medium and isolating prod..
DC B04 D16
PA (TOYM) TOYOBO KK
CYC 1
PI JP 54028893 A 19790303 (197915)*
JP 58040470 B 19830906 (198339)
PRAI JP 1977-94432 19770805
IC C07G007-02; C12D013-10; C12N009-06; C12R001-06

=> s sarcosine oxidase (5a) corynebacterium
L10 150 SARCOSINE OXIDASE (5A) CORYNEBACTERIUM

=> s l10 (5a)(purifi? or isolat?)
L11 15 L10 (5A)(PURIFI? OR ISOLAT?)

=> dup rem l11
PROCESSING COMPLETED FOR L11
L12 5 DUP REM L11 (10 DUPLICATES REMOVED)

=> d 1-5

L12 ANSWER 1 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1999:211859 HCAPLUS
DN 131:83726
TI Nitrogen regulation in Corynebacterium glutamicum: isolation of genes involved and biochemical characterization of corresponding proteins
AU Jakoby, Marc; Kramer, Reinhard; Burkovski, Andreas
CS Zulpicher-Str. 47, Institut fur Biochemie, Universitat zu Koln, D-50674, Cologne, Germany
SO FEMS Microbiology Letters (1999), 173(2), 303-310
CODEN: FMLED7; ISSN: 0378-1097
PB Elsevier Science B.V.
DT Journal
LA English
RE.CNT 28 THERE ARE 28 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L12 ANSWER 2 OF 5 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1995:941897 HCAPLUS
DN 124:22762
TI One-step cloning and overexpression of the sarcosine oxidase operon from Corynebacterium sp. P-1
AU Chlumsky, Lawrence J.; Ramsey, Andrew J.; Jorns, Marilyn S.
CS School Medicine, Hahnemann University, Philadelphia, PA, 19102, USA
SO Flavins and Flavoproteins 1993, Proceedings of the International Symposium -- 11th, Nagoya, July 27-31, 1993 (1994), Meeting Date 1993, 779-82.
Editor(s): Yagi, Kunio. Publisher: de Gruyter, Berlin, Germany.
CODEN: 61QUAJ
DT Conference
LA English

L12 ANSWER 3 OF 5 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN DUPLICATE 1
AN 93:641551 SCISEARCH
GA The Genuine Article (R) Number: MC569
TI PREPARATION AND PROPERTIES OF RECOMBINANT CORYNEBACTERIAL SARCOSINE OXIDASE - EVIDENCE FOR POSTTRANSLATIONAL MODIFICATION DURING TURNOVER WITH SARCOSINE
AU CHLUMSKY L J; ZHANG L N; RAMSEY A J; JORNS M S (Reprint)
CS HAHNEMANN UNIV, DEPT BIOL CHEM, PHILADELPHIA, PA, 19102
CYA USA
SO BIOCHEMISTRY, (19 OCT 1993) Vol. 32, No. 41, pp. 11132-11142.
ISSN: 0006-2960.
DT Article; Journal

FS LIFE
LA ENGLISH
REC Reference Count: 44
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L12 ANSWER 4 OF 5 MEDLINE on STN DUPLICATE 2
AN 87076519 MEDLINE
DN PubMed ID: 3790506
TI Bacterial sarcosine oxidase: comparison of two multisubunit enzymes containing both covalent and noncovalent flavin.
AU Kvalnes-Krick K; Jorns M S
NC GM 31704 (NIGMS)
SO Biochemistry, (1986 Oct 7) 25 (20) 6061-9.
Journal code: 0370623. ISSN: 0006-2960.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 198702
ED Entered STN: 19900302
Last Updated on STN: 19970203
Entered Medline: 19870210

L12 ANSWER 5 OF 5 MEDLINE on STN DUPLICATE 3
AN 81215405 MEDLINE
DN PubMed ID: 7240129
TI ***Purification*** and some properties of ***sarcosine*** ***oxidase*** from ***Corynebacterium*** sp. U-96.
AU Suzuki M
SO Journal of biochemistry, (1981 Feb) 89 (2) 599-607.
Journal code: 0376600. ISSN: 0021-924X.
CY Japan
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 198108
ED Entered STN: 19900316
Last Updated on STN: 19970203
Entered Medline: 19810820

=> d 4 ab

L12 ANSWER 4 OF 5 MEDLINE on STN DUPLICATE 2
AB ***Sarcosine*** ***oxidase*** was ***purified*** to homogeneity from ***Corynebacterium*** sp. P-1, a soil organism isolated by a serial enrichment technique. The enzyme contains 1 mol of noncovalently bound flavin [flavin adenine dinucleotide (FAD)] plus 1 mol of covalently bound flavin [8 alpha-(N3-histidyl)-FAD] per mole of enzyme (Mr 168,000). The two flavins appear to have different roles in catalysis. The enzyme has an unusual subunit composition, containing four dissimilar subunits (Mr 100,000, 42,000, 20,000, and 6000). The same subunits are detected in Western blot analysis of cell extracts prepared in the presence of trichloroacetic acid, indicating that the subunits are a genuine property of the enzyme as it exists in vivo. The presence of both covalent and noncovalent flavin in a single enzyme is extremely unusual and has previously been observed only with a ***sarcosine*** ***oxidase*** from a soil ***Corynebacterium*** ***isolated*** in Japan. The enzymes exhibit many similarities but are distinguishable in electrophoretic studies. Immunologically, the enzymes are cross-reactive but not identical. The results indicate that the synthesis of a sarcosine oxidase containing both covalent and noncovalent flavin is not a particularly unusual event in corynebacteria.

=> s sarcosine oxidase (5a) alcaligenes
L13 9 SARCOSINE OXIDASE (5A) ALCALIGENES

=> dup rem l13
PROCESSING COMPLETED FOR L13
L14 3 DUP REM L13 (6 DUPLICATES REMOVED)

```
=> d 1-3

L14  ANSWER 1 OF 3  HCAPLUS  COPYRIGHT 2005 ACS on STN
AN   1997:591389  HCAPLUS
DN   127:187507
TI   Novel mutant creatine amidinohydrolase from Alcaligenes and its production
     and analytical use
IN   Sogabe, Atsushi; Hattori, Takashi; Nishiya, Yoshiaka; Kawamura, Yoshihisa
PA   Toyo Boseki Kabushiki Kaisha, Japan
SO   Eur. Pat. Appl., 21 pp.
     CODEN: EPXXDW
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.         DATE
     ---------------     ----   --------    --------------------    --------
PI   EP 790303           A1     19970820    EP 1997-102270          19970213
        R:  DE, FR, GB, IT
     JP 09215494         A2     19970819    JP 1996-25435           19960213
     JP 3075390          B2     20000814
     US 6080553          A      20000627    US 1997-799897          19970213
     EP 1132467          A2     20010912    EP 2001-113052          19970213
     EP 1132467          A3     20011010
        R:  DE, FR, GB, IT
     US 38687            E      20050111    US 2001-940941          20010828
PRAI JP 1996-25435       A      19960213
     EP 1997-102270      A3     19970213
     US 1997-799897      A5     19970213

L14  ANSWER 2 OF 3  SCISEARCH  COPYRIGHT (c) 2005 The Thomson Corporation  on
     STN                                                    DUPLICATE 1
AN   87:258625  SCISEARCH
GA   The Genuine Article (R) Number: H0849
TI   CRYSTALLIZATION AND CHARACTERIZATION OF   ***SARCOSINE***
       ***OXIDASE***   FROM   ***ALCALIGENES***  -DENITRIFICANS SUBSP
     DENITRIFICANS
AU   KIM J M (Reprint); SHIMIZU S; YAMADA H
CS   KYOTO UNIV, FAC AGR, DEPT AGR CHEM, KYOTO 606, JAPAN (Reprint)
CYA  JAPAN
SO   AGRICULTURAL AND BIOLOGICAL CHEMISTRY, (1987) Vol. 51, No. 4, pp.
     1167-1168.
DT   Note; Journal
FS   LIFE; AGRI
LA   ENGLISH
REC  Reference Count: 10

L14  ANSWER 3 OF 3  SCISEARCH  COPYRIGHT (c) 2005 The Thomson Corporation  on
     STN                                                    DUPLICATE 2
AN   86:666623  SCISEARCH
GA   The Genuine Article (R) Number: E9870
TI     ***SARCOSINE***     ***OXIDASE***   INVOLVED IN CREATININE DEGRADATION
     IN   ***ALCALIGENES***  -DENITRIFICANS SUBSP DENTRIFICANS J9 AND
     ARTHROBACTER SPP J5 AND J11
AU   KIM J M (Reprint); SHIMIZU S; YAMADA H
CS   KYOTO UNIV, FAC AGR, DEPT AGR CHEM, KYOTO 606, JAPAN (Reprint)
CYA  JAPAN
SO   AGRICULTURAL AND BIOLOGICAL CHEMISTRY, (1986) Vol. 50, No. 11, pp.
     2811-2816.
DT   Article; Journal
FS   LIFE; AGRI
LA   ENGLISH
REC  Reference Count: 35


=> s sarcosine oxidase (5a) pseudomonas
L15         20 SARCOSINE OXIDASE (5A) PSEUDOMONAS

=> dup rem l15
PROCESSING COMPLETED FOR L15
L16          12 DUP REM L15 (8 DUPLICATES REMOVED)
```

=> d 1-10

L16 ANSWER 1 OF 12 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
AN 2001-12855 BIOTECHDS
TI Fabrication of a sensing module using micromachined biosensors; miniaturized enzyme electrode biosensor using glucose-oxidase, urease, uricase, creatinase, sarcosine-oxidase, creatininase for blood component analysis (conference paper)
AU Suzuki H; Arakawa H; Karube I
CS Univ.Tsukuba-Inst.Mater.Sci.; Univ.Tokyo
LO Institute of Materials Science, University of Tsukuba, 1-1-1 Tennodai, Tsukuba Science City 305-8573, Japan.
Email: hsuzuki@ims.tsukuba.ac.jp
SO Biosensors Bioelectron.; (2001) 16, 9-12, 725-33
CODEN: BBIOE4 ISSN: 0956-5663
Sixth World Congress on Biosensors, San Diego, CA, USA, 24-26th May, 2000.
DT Journal
LA English

L16 ANSWER 2 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1998:198177 HCAPLUS
DN 129:25066
TI Using porous glass in enzyme immobilization
AU Janasek, Dirk; Spohn, Uwe
CS Inst. Biotechnologie, Martin-Luther-Univ., Halle/Saale, D-06120, Germany
SO Bioforum (1998), 21(3), 108-109
CODEN: BFRME3; ISSN: 0940-0079
PB GIT Verlag GmbH
DT Journal
LA German

L16 ANSWER 3 OF 12 MEDLINE on STN DUPLICATE 1
AN 96196638 MEDLINE
DN PubMed ID: 8611516
TI Sarcosine oxidase contains a novel covalently bound FMN.
AU Willie A; Edmondson D E; Jorns M S
CS Department of Biochemistry, Medical College of Pennsylvania, Philadelphia, USA.
NC GM 29433 (NIGMS)
GM 31704 (NIGMS)
SO Biochemistry, (1996 Apr 23) 35 (16) 5292-9.
Journal code: 0370623. ISSN: 0006-2960.
CY United States
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 199606
ED Entered STN: 19960613
Last Updated on STN: 20000303
Entered Medline: 19960606

L16 ANSWER 4 OF 12 BIOSIS COPYRIGHT (c) 2005 The Thomson Corporation on STN DUPLICATE 2
AN 1996:266674 BIOSIS
DN PREV199698822803
TI Screening of the sarcosine oxidase-producing strain and characterization of sarcosine oxidase.
AU Wu, Mei-Li [Reprint author]; Hong, Ming-Chuan; Chang, Ming-Chung
CS Dep. Food Sci. and Technol., Natl. Pingtung Polytechnic Inst., Pingtung, Taiwan
SO Journal of the Chinese Agricultural Chemical Society, (1996) Vol. 34, No. 1, pp. 69-77.
CODEN: CKNHAA. ISSN: 0578-1736.
DT Article
LA Chinese
ED Entered STN: 10 Jun 1996
Last Updated on STN: 10 Jun 1996

L16 ANSWER 5 OF 12 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN

AN 1992-07331 BIOTECHDS
TI Use of various types of column reactors for flow injection analysis; sequentially acting enzyme immobilization for sequential, mixed-bed or co-immobilized column; serum creatinine analysis using creatininase, creatinase and sarcosine-oxidase (conference paper)
AU Tabata M; Murachi T; Endo J; Totani M
LO College of Medical Technology, Kyoto University, Sakyo-ku, Kyoto 606, Japan.
SO J.Chromatogr.; (1992) 597, 1-2, 435-42
CODEN: JOCRAM
DT Journal
LA English

L16 ANSWER 6 OF 12 LIFESCI COPYRIGHT 2005 CSA on STN
AN 91:18948 LIFESCI
TI Process for obtaining sarcosine oxidase from microorganisms.
AU Mayr, U.; Gauhl, H.; Seidel, H.
CS Boehringer Mannheim GmbH, Mannheim-Waldorf (FRG)
PI US 5024945 1991
SO (1991) . US Cl. 435/191; Int. Cl. C12N 9/06, C12P 13/04..
DT Patent
FS A
LA English

L16 ANSWER 7 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1991:97925 HCAPLUS
DN 114:97925
TI Utilization of glyphosate by Pseudomonas sp. GS
AU Weidhase, Rosemarie; Albrecht, Birgit; Stock, Manfred; Weidhase, Reinhard A.
CS Inst. Biochem. Pflanzen, Akad. Wiss. DDR, Halle, DDR-4050, Ger. Dem. Rep.
SO Zentralblatt fuer Mikrobiologie (1990), 145(6), 433-8
CODEN: ZEMIDI; ISSN: 0232-4393
DT Journal
LA German

L16 ANSWER 8 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 3
AN 1985:147562 HCAPLUS
DN 102:147562
TI Sarcosine oxidase
IN Mayr, Ulrich; Gauhl, Helmgard; Seidel, Hans; Roeder, Albert
PA Boehringer Mannheim G.m.b.H. , Fed. Rep. Ger.
SO Ger. Offen., 13 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3326888	A1	19850214	DE 1983-3326888	19830726
	ES 534117	A1	19850416	ES 1984-534117	19840706
	US 5024945	A	19910618	US 1984-629504	19840710
	CA 1230301	A1	19871215	CA 1984-459182	19840718
	JP 60043379	A2	19850307	JP 1984-153299	19840725
	JP 62019153	B4	19870427		
	EP 135070	A2	19850327	EP 1984-108877	19840726
	EP 135070	A3	19850508		
	EP 135070	B1	19880323		
	R: AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE				
	AT 33148	E	19880415	AT 1984-108877	19840726
PRAI	DE 1983-3326888	A	19830726		
	EP 1984-108877	A	19840726		

L16 ANSWER 9 OF 12 LIFESCI COPYRIGHT 2005 CSA on STN
AN 82:85357 LIFESCI
TI Enzyme electrodes for simultaneous determination of creatinine and creatine in serum or whole blood.
ENZYME ENGINEERING. VOLUME 6.
AU Tsuchida, T.; Yoda, K.; Chibata, I. [editor]; Fukui, S. [editor]; Wingard, L.B.,Jr. [editor]
CS Katata Res. Cent., Toyobo Co., Ltd. Honkatata, Otsu 520-02, Japan

SO ., (1982) pp. 475-476.
Meeting Info.: 6. Enzyme Engineering Conference. Kashikojima (Japan). 20-25 Sep 1981.
ISBN: 0-306-41121-0.
DT Book
TC Conference
FS L; A
LA English

L16 ANSWER 10 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1972:96144 HCAPLUS
DN 76:96144
TI Isolation of acid-nonextractable flavines from a bacterial sarcosine oxidase
AU Patek, David R.; Dahl, C. Robert; Frisell, Wilhelm R.
CS Coll. Med. Dent. New Jersey, New Jersey Med. Sch., Newark, NJ, USA
SO Biochemical and Biophysical Research Communications (1972), 46(2), 885-91
CODEN: BBRCA9; ISSN: 0006-291X
DT Journal
LA English

=> d 11, 12

L16 ANSWER 11 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1951:11515 HCAPLUS
DN 45:11515
OREF 45:2060h-i
TI The sarcosine oxidase in adapted and unadapted cultures of a strain of Pseudomonas aeruginosa
AU Bernheim, Frederick
CS Duke Univ., Durham, NC
SO Journal of Bacteriology (1950), 60, 767-70
CODEN: JOBAAY; ISSN: 0021-9193
DT Journal
LA Unavailable

L16 ANSWER 12 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1950:56764 HCAPLUS
DN 44:56764
OREF 44:10792i,10793a-b
TI Studies on a sarcosine oxidase of bacterial origin
AU Kopper, Paul H.
CS Chicago Med. School
SO Journal of General Physiology (1950), 34, 9-17
CODEN: JGPLAD; ISSN: 0022-1295
DT Journal
LA Unavailable

=> d 12 ab

L16 ANSWER 12 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN
AB The ***Pseudomonas*** ***sarcosine*** ***oxidase*** behaves like the L-amino acid oxidase from Proteus, neither requiring a dialyzable cofactor for activity. Drying, lyophilization, or dialysis against distd. H2O inactivates the enzyme. Optimum activity is attained at pH 7.8. The activity is proportional to the enzyme concn. and to the concn. of the substrate up to the satn. of the enzyme with substrate, the two combining mol. for mol. The heat inactivation of the enzyme is a reaction of the first order. The crit. thermal increment is 103, 000 calories per mole within the range 48-52.degree.. Inhibition of the enzyme by various substances was detd. Complete inhibition was achieved with 10-4 M CuSO4, AgNO3, HgCl2, 10-3 M cysteine, or NaCN and 10-2 M Na benzoate. The enzyme was prepd. from a creatine-decompg. strain of Pseudomonas aeruginosa.

=> s sarcosine oxidase (5a) micrococcus
L17 0 SARCOSINE OXIDASE (5A) MICROCOCCUS

=> s sarcosine oxidase and micrococcus

```
L18          3 SARCOSINE OXIDASE AND MICROCOCCUS

=> dup rem l18
PROCESSING COMPLETED FOR L18
L19           2 DUP REM L18 (1 DUPLICATE REMOVED)

=> d 1,2

L19  ANSWER 1 OF 2  WPIDS  COPYRIGHT 2005 THE THOMSON CORP on STN
AN   1986-243301 [37]   WPIDS
DNN  N1986-181799       DNC C1986-104777
TI   Spectrophotometric analysis of substrate or enzyme activity - includes
     adding reagent contg. oxidase, katarase and peroxidase and reagent contg.
     extract of e.g liver.
DC   B04 D16
PA   (TOYM) TOYOBO KK
CYC  1
PI   JP 61173799     A  19860805 (198637)*       8
     JP 04034400     B  19920605 (199227)        8    C12Q001-26
ADT  JP 61173799 A JP 1985-16237 19850129; JP 04034400 B JP 1985-16237 19850129
FDT  JP 04034400 B Based on JP 61173799
PRAI JP 1985-16237        19850129
IC   ICM  C12Q001-26
     ICS  C12Q001-28; C12Q001-30

L19  ANSWER 2 OF 2  HCAPLUS  COPYRIGHT 2005 ACS on STN DUPLICATE 1
AN   1984:587515  HCAPLUS
DN   101:187515
TI   Reagent and methods for determining N-carbamoylsarcosine and a new enzyme
     suitable for this method
IN   Deeg, Rolf; Roeder, Albert; Siedel, Joachim; Gauhl, Helmgard; Ziegenhorn,
     Joachim
PA   Boehringer Mannheim G.m.b.H. , Fed. Rep. Ger.
SO   Ger. Offen., 18 pp.
     CODEN: GWXXBX
DT   Patent
LA   German
FAN.CNT 1
     PATENT NO.           KIND   DATE        APPLICATION NO.         DATE
     ---------------      ----   --------    --------------------    --------
PI   DE 3248145           A1     19840628    DE 1982-3248145         19821227
     AU 8321870           A1     19840705    AU 1983-21870           19831201
     AU 545903            B2     19850808
     ES 528117            A1     19840801    ES 1983-528117          19831216
     US 4645739           A      19870224    US 1983-562072          19831216
     DK 8305925           A      19840628    DK 1983-5925            19831222
     DK 173112            B1     20000131
     ZA 8309522           A      19840926    ZA 1983-9522            19831222
     DD 216255            A5     19841205    DD 1983-258475          19831222
     DD 222631            A5     19850522    DD 1983-268005          19831222
     CA 1210675           A1     19860902    CA 1983-444052          19831222
     IL 70529             A1     19871020    IL 1983-70529           19831222
     EP 112571            A1     19840704    EP 1983-113075          19831223
     EP 112571            B1     19870805
         R:  AT, BE, CH, DE, FR, GB, IT, LI, LU, NL, SE
     JP 59132891          A2     19840731    JP 1983-242347          19831223
     JP 63009839          B4     19880302
     AT 28758             E      19870815    AT 1983-113075          19831223
     JP 63102680          A2     19880507    JP 1987-196139          19870805
     JP 04007673          B4     19920212
PRAI DE 1982-3248145      A      19821227
     EP 1983-113075       A      19831223


=> d kwic

L19  ANSWER 1 OF 2  WPIDS  COPYRIGHT 2005 THE THOMSON CORP on STN
AB   . . .
     the sample, and (3) determining content of substrate ot enzymic activity
     of sample spectrophotometrically.
          (I) is e.g. glycerol oxidase,   ***sarcosine***     ***oxidase***  ,
```

cholesterol oxidase, or glucose oxidase (II) is extracted from animal liver, or kidney, or a ***Micrococcus*** strain. (III) may be added to one or both of the first and second reagents. The amount of (III) used. .

=> d 2 kwic

L19 ANSWER 2 OF 2 HCAPLUS COPYRIGHT 2005 ACS on STN DUPLICATE 1
AB N-Carbamoylsarcosine (I) is detd. by reacting it with microbial I amidohydrolase and detg. the sarcosine formed by a ***sarcosine*** ***oxidase*** -peroxidase coupled system. The prodn. and purifn. of I amidohydrolase are also described. Thus, for detn. of I, the sample was incubated with I amidohydrolase, and the sarcosine formed was reacted with ***sarcosine*** ***oxidase*** and O2. The H2O2 formed in the latter reaction was detd. by reaction with 4-aminophenazone catalyzed by peroxidase. The absorbance. . .
IT Arthrobacter
Micrococcus
Moraxella
(N-carbamoylsarcosine aminohydrolase of, manuf. and prepn. of, for detn. of N-carbamoylsarcosine)
IT 616-04-6
RL: ANST (Analytical study)
(Arthrobacter and Moraxella and ***Micrococcus*** growth on, for manuf. of N-carbamoylsarcosine aminohydrolase)

=> s sarcosine oxidase and bacillus
L20 155 SARCOSINE OXIDASE AND BACILLUS

=> s sarcosine oxidase (5a) bacillus
L21 80 SARCOSINE OXIDASE (5A) BACILLUS

=> s l21 (5a)(purifi? or isolat?)
L23 14 L21 (5A)(PURIFI? OR ISOLAT?)

=> dup rem l23
PROCESSING COMPLETED FOR L23
L24 10 DUP REM L23 (4 DUPLICATES REMOVED)

=> d 1-10

L24 ANSWER 1 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 2001:357616 HCAPLUS
DN 135:177054
TI Characterization of recombinant monomeric sarcosine oxidase from Bacillus sp. B-0618
AU Wagner, Mary Ann Hope
CS Allegheny Univ. of Health Sciences, Philadelphia, PA, USA
SO (2000) 285 pp. Avail.: UMI, Order No. DA9981397
From: Diss. Abstr. Int., B 2001, 61(7), 3584
DT Dissertation
LA English

L24 ANSWER 2 OF 10 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN
AN 2000:569657 SCISEARCH
GA The Genuine Article (R) Number: 336RG
TI The human L-pipecolic acid oxidase is similar to bacterial monomeric sarcosine oxidases rather than D-amino acid oxidases
AU Dodt G; Kim D; Reimann S; McCabe K; Gould S J; Mihalik S J (Reprint)
CS JOHNS HOPKINS UNIV, SCH MED, DEPT BIOL CHEM, BALTIMORE, MD 21205 (Reprint); JOHNS HOPKINS UNIV, SCH MED, DEPT BIOL CHEM, BALTIMORE, MD 21205; JOHNS HOPKINS UNIV, SCH MED, DEPT PEDIAT, BALTIMORE, MD 21205; RUHR UNIV BOCHUM, INST PHYSIOL CHEM, D-4630 BOCHUM, GERMANY; KENNEDY KREISER INST, BALTIMORE, MD
CYA USA; GERMANY
SO CELL BIOCHEMISTRY AND BIOPHYSICS, (SPR 2000) Vol. 32, pp. 313-316.
Publisher: HUMANA PRESS INC, 999 RIVERVIEW DRIVE SUITE 208, TOTOWA, NJ 07512.

ISSN: 1085-9195.
DT Article; Journal
LA English
REC Reference Count: 23
ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

L24 ANSWER 3 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1999:802468 HCAPLUS
DN 132:46946
TI Cloning and expression of gene for sarcosine oxidase from Bacillus subtilis and use as biochemical reagent
IN Nishiya, Yoshiaki; Kawamura, Yoshihisa
PA Toyobo Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 11346771	A2	19991221	JP 1998-157583	19980605
PRAI JP 1998-157583		19980605		

L24 ANSWER 4 OF 10 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
AN 1999-00894 BIOTECHDS
TI Crystalline sarcosine-oxidase;
produced by Bacillus sp. and used for kidney disease therapy
PA Kikkoman
LO Japan.
PI JP 10262658 6 Oct 1998
AI JP 1997-78524 28 Mar 1997
PRAI JP 1997-78524 28 Mar 1997
DT Patent
LA Japanese
OS WPI: 1998-587280 [50]

L24 ANSWER 5 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1996:731798 HCAPLUS
DN 126:3764
TI Cloning and expression of gene for sarcosine oxidase of Bacillus
IN Sagai, Hitoshi; Masujima, Harumi; Suzuki, Yasushi; Ikuta, Shigeru
PA Asahi Chemical Ind, Japan
SO Jpn. Kokai Tokkyo Koho, 17 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 08238087	A2	19960917	JP 1995-331733	19951220
JP 2729045	B2	19980318		
PRAI JP 1995-331733		19951220		

L24 ANSWER 6 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1994:128518 HCAPLUS
DN 120:128518
TI Bacillus sarcosine oxidase, its preparation with Bacillus, and its use in creatinine determination
IN Long, Susan
PA Genzyme Corp., USA
SO PCT Int. Appl., 18 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 9401539	A1	19940120	WO 1993-US6620	19930714
W: AU, CA, JP				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE				
AU 9346777	A1	19940131	AU 1993-46777	19930714

PRAI US 1992-914154 A 19920714
WO 1993-US6620 A 19930714

L24 ANSWER 7 OF 10 LIFESCI COPYRIGHT 2005 CSA on STN
AN 91:45028 LIFESCI
TI Cloning and expression of the sarcosine oxidase gene from Bacillus sp. NS-129 in Escherichia coli .
AU Koyama, Y.; Yamamoto-Otake, H.; Suzuki, M.; Nakano, E.
CS Res. and Dev. Div., Kikkoman Corp., Noda 399, Noda-shi, Chiba 278, Japan
SO AGRIC. BIOL. CHEM., (1991) vol. 55, no. 5, pp. 1259-1263.
DT Journal
FS J; N; G
LA English
SL English

L24 ANSWER 8 OF 10 BIOTECHDS COPYRIGHT 2005 THE THOMSON CORP. on STN
AN 1989-05997 BIOTECHDS
TI New DNA sequence encoding sarcosine-oxidase; production of recombinant sarcosine-oxidase by transformed Escherichia coli for use in diagnosis
PA Toyo-Jozo
PI DE 3827168 23 Feb 1989
AI DE 1988-827168 10 Aug 1988
PRAI JP 1987-199460 10 Aug 1987
DT Patent
LA German
OS WPI: 1989-062212 [09]

L24 ANSWER 9 OF 10 HCAPLUS COPYRIGHT 2005 ACS on STN
AN 1988:449629 HCAPLUS
DN 109:49629
TI ***Isolation*** of ***sarcosine*** ***oxidase*** gene from ***Bacillus*** NS129, and expression of the gene in Escherichia coli
IN Koyama, Yasuji; Nakano, Eiichi; Suzuki, Masaru; Yamamoto, Hideko
PA Kikkoman Corp., Japan; Noda Institute for Scientific Research
SO Ger. Offen., 10 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 3714532	A1	19880303	DE 1987-3714532	19870430
	DE 3714532	C2	19960515		
	JP 63059893	A2	19880315	JP 1986-201289	19860829
	JP 06065303	B4	19940824		
	JP 63059885	A2	19880315	JP 1986-201290	19860829
	JP 06032608	B4	19940502		
PRAI	JP 1986-201289	A	19860829		
	JP 1986-201290	A	19860829		

L24 ANSWER 10 OF 10 MEDLINE on STN DUPLICATE 1
AN 87244546 MEDLINE
DN PubMed ID: 3594681
TI ***Purification*** and characterization of ***sarcosine*** ***oxidase*** of ***Bacillus*** origin.
AU Matsuda Y; Hoshika H; Inouye Y; Ikuta S; Matsuura K; Nakamura S
SO Chemical & pharmaceutical bulletin, (1987 Feb) 35 (2) 711-7.
Journal code: 0377775. ISSN: 0009-2363.
CY Japan
DT Journal; Article; (JOURNAL ARTICLE)
LA English
FS Priority Journals
EM 198708
ED Entered STN: 19900305
Last Updated on STN: 19970203
Entered Medline: 19870803

=> dis his

(FILE 'HOME' ENTERED AT 22:19:57 ON 01 JUL 2005)

FILE 'MEDLINE, SCISEARCH, LIFESCI, BIOTECHDS, BIOSIS, EMBASE, HCAPLUS, NTIS, ESBIOBASE, BIOTECHNO, WPIDS' ENTERED AT 22:20:39 ON 01 JUL 2005

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L1          54 S ALCALIGENES AND CREATINE
L2           6 S ALKALIGENES AND CREATINE
L3          58 S L1 OR L2
L4          31 DUP REM L3 (27 DUPLICATES REMOVED)
L5          21 S L4 AND AMIDINOHYDROLASE
L6         138 S SARCOSINE OXIDASE AND ARTHROBACTER
L7          89 S SARCOSINE OXIDASE (5A) ARTHROBACTER
L8          13 S L7 (5A)(PURIFI? OR ISOLAT?)
L9           4 DUP REM L8 (9 DUPLICATES REMOVED)
L10        150 S SARCOSINE OXIDASE (5A) CORYNEBACTERIUM
L11         15 S L10 (5A)(PURIFI? OR ISOLAT?)
L12          5 DUP REM L11 (10 DUPLICATES REMOVED)
L13          9 S SARCOSINE OXIDASE (5A) ALCALIGENES
L14          3 DUP REM L13 (6 DUPLICATES REMOVED)
L15         20 S SARCOSINE OXIDASE (5A) PSEUDOMONAS
L16         12 DUP REM L15 (8 DUPLICATES REMOVED)
L17          0 S SARCOSINE OXIDASE (5A) MICROCOCCUS
L18          3 S SARCOSINE OXIDASE AND MICROCOCCUS
L19          2 DUP REM L18 (1 DUPLICATE REMOVED)
L20        155 S SARCOSINE OXIDASE AND BACILLUS
L21         80 S SARCOSINE OXIDASE (5A) BACILLUS
L22         73 S L20 (5A)(PURIFI? OR ISOLAT?)
L23         14 S L21 (5A)(PURIFI? OR ISOLAT?)
L24         10 DUP REM L23 (4 DUPLICATES REMOVED)

=> log h
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COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	166.17	166.38

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-1.46	-1.46

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STN INTERNATIONAL SESSION SUSPENDED AT 22:40:54 ON 01 JUL 2005